

This listing of claims replaces all prior versions and listings:

Listing of Claims:

5 1-23. (canceled)

24. (currently amended) A computer-implemented method comprising:
on a first thread, downloading first and second compressed pieces of data
for first and second images of a document having multiple images, the first and
10 second compressed pieces of data received from an external source over a
communication network;
on a second thread, decompressing the first and second compressed pieces
of data to provide first and second pieces of memory data;
on a third thread, applying image processing to the first and second pieces
15 of memory data to provide first and second processed pieces of memory data;
on a fourth thread, sending the first and second processed pieces of memory
data through a print driver to a print spooler to provide first and second pieces of
print-ready data; and
on a fifth thread, transferring the first and second pieces of print-ready data
20 through an input/output to a printer effective to enable the printer to print the first
and second images,
wherein the acts of downloading the first compressed piece of data on the
first thread, decompressing the first compressed piece of data on the second
thread, applying image processing to the first piece of memory data on the third

thread, sending the first processed piece of memory data on the fourth thread, and transferring the first piece of print-ready data on the fifth thread are performed in the given order for each of the multiple images and wherein three or more of these acts are performed concurrently for different images of the document.

5

25. (previously presented) The method of claim 24, wherein the compressed pieces of data comprise raster data.

10 26. (previously presented) The method of claim 24, wherein the communication network comprises a global internet.

27. (currently amended) The method of claim 24, wherein one or more of the multiple the first and second images each comprise a page of the a document.

15 28. (currently amended) The method of claim 24, wherein the acts of downloading, decompressing, applying, sending, and transferring are performed five times, once for each of [[a]] the first, the second, a third, a fourth, and a fifth images of the document, and the act of downloading a fifth compressed piece of data for the fifth image is performed concurrently with decompressing a fourth 20 compressed piece of data for the fourth image, applying image processing to a third piece of memory data for the third image, sending [[a]] the second processed piece of memory data for the second image, and transferring [[a]] the first processed piece of memory data for the first image.

29. (new) The method of claim 24, wherein the acts of downloading the second compressed piece of data on the first thread, decompressing the second compressed piece of data on the second thread, applying image processing to the second piece of memory data on the third thread, sending the second processed 5 piece of memory data on the fourth thread, and transferring the second piece of print-ready data on the fifth thread are performed in the given order.

30. (new) The method of claim 24, wherein the act of decompressing the first compressed piece of data on the second thread is performed immediately after 10 completion of downloading of the first compressed piece of data on the first thread.

31. (new) The method of claim 24, wherein the act of downloading the first and second compressed pieces of data on the first thread downloads the 15 second compressed piece of data immediately after downloading the first compressed piece of data.

32. (new) A computer-implemented method comprising:
applying image processing to a piece of memory data for an image of a
document to provide a processed piece of memory data;
sending the processed piece of memory data through a print driver to a print
5 spooler to provide a piece of print-ready data; and
transferring the piece of print-ready data through an input/output to a
printer effective to enable the printer to print the image,
wherein two or more of the acts of applying, sending, and transferring are
performed on different threads.

10

33. (new) The method of claim 32, wherein all of the acts of applying,
sending, and transferring are performed on different threads.

34. (new) The method of claim 32, wherein the act of applying is
15 performed on a first thread, the act of sending is performed on a second thread,
and the act of transferring is performed on a third thread, and further comprising:
applying image processing to a second piece of memory data for a second
image of the document to provide a second processed piece of memory data also
on the first thread;

20 sending the second processed piece of memory data through the print driver
to the print spooler to provide a second piece of print-ready data also on the
second thread; and

transferring the second piece of print-ready data through the input/output to
a printer effective to enable the printer to print the second image.

35. (new) A computer-implemented method comprising:
downloading compressed pieces of data for images, the compressed pieces
of data received from an external source over a communication network;
decompressing the compressed pieces of data to provide pieces of memory
5 data;
applying image processing to the pieces of memory data to provide
processed pieces of memory data;
sending the processed pieces of memory data through a print driver to a
print spooler to provide pieces of print-ready data; and
10 transferring the pieces of print-ready data through an input/output to a
printer effective to enable the printer to print the images,
wherein the acts of downloading, decompressing, applying, sending, and
transferring are performed in the given order and on multiple separate threads of a
single processor for at least one of the images and wherein three or more of these
15 acts are performed concurrently for different images.

36. (new) The method of claim 35, wherein the compressed pieces of data
comprise raster data.
- 20 37. (new) The method of claim 35, wherein the communication network
comprises a global internet.
38. (new) The method of claim 35, wherein one or more of the images
comprise a page of a document.

39. (new) The method of claim 35, wherein the acts of downloading, decompressing, applying, sending, and transferring are performed five times, once for each of a first, second, third, fourth, and fifth images, and the act of
5 downloading a compressed piece of data for the fifth image is performed concurrently with decompressing a compressed piece of data for the fourth image, applying image processing to a piece of memory data for the third image, sending a processed piece of memory data for the second image, and transferring a processed piece of memory data for the first image.